

## **Study Session 4**

#### LOS 1: Introduction



#### Reasons for Merger & Acquisition

- **Economies of Scale**
- Efficiency Improvement
- Power of Market Share Reduced Competition
- Tax Consideration
- Combining resources that are complementary
- Diversification

#### Types / Forms of Mergers

- Horizontal Merger
- Vertical Merger
- **Conglomerate Mergers**
- Reverse Merger

## LOS 2: Share Exchange Ratio/Swap Ratio

Swap Ratio may be defined as No. of equity shares issued by Acquiring Company to Target Company for every one share held by Target Company.

#### **Example:**

If Swap Ratio = 2, it means that for every 1 share held by Target company, Acquiring Company will issue 2 shares. Methods of Calculating the Swap Ratio (Positive Parameters):

Swap Ratio = 
$$\frac{\text{Target Co.}}{\text{Acquiring Co.}}$$

MPS of Target Company On the basis of MPS Swap Ratio = MPS of Acquiring Company

**EPS of Target Company** On the basis of EPS Swap Ratio = EPS of Acquiring Company

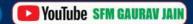
**NAV of Target Company** On the basis of NAV per Share Swap Ratio = NAV of Acquiring Company

**BVPS of Target Company** On the basis of Book Value per share Swap Ratio = **BVPS of Acquiring Company** 



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#### 5. On the basis of P/E Ratio

Swap Ratio = 
$$\frac{P/E \text{ Ratio of Target Company}}{P/E \text{ Ratio of Acquiring Company}}$$

#### Note:

$$EPS = \frac{Earning available to Equity Shareholder}{Total number of equity shares}$$

$$P/E Ratio = \frac{Market Price per Share}{Earning Price per Share}$$

#### Note:

If question is silent regarding the basis of calculation of swap ratio, Swap Ratio may be calculated using EPS or MPS as per the requirement of the question.

#### **SWAP Ratio (Negative Parameters):**

Swap Ratio = 
$$\frac{\text{Acquiring Co.}}{\text{Target Co.}}$$

e.g. Swap Ratio based on NPA's = 
$$\frac{\text{NPA of Acquiring Co.}}{\text{NPA of Target Co.}}$$

#### **LOS 3: Some Basic Concepts**

#### 1. Total Number of Equity Shares after Merger

Number of Shares  $A+B = N_A + N_B \times ER$ 

#### **Example:**

	A Ltd.	B Ltd.
No. of Shares	100000	50000

Calculate total no. of Equity Shares after Merger if Swap Ratio/ Exchange Ratio = 0.50?

#### Solution:

Number of Shares 
$$_{A+B}$$
 (T $_{A+B}$ ) = N<sub>A</sub> + N<sub>B</sub> × ER  
= 1,00,000 + 50,000 × 0.50  
= 1,00,000 + 25,000 = 1,25,000 shares

#### 2. EPS after Merger or EPS<sub>A+B</sub> or EPS of a Merged Firm/ Combined Firm

$$EPS_{A+B} = \left[\frac{E_A + E_B + Synergy Gain}{N_A + N_B \times ER}\right]$$

#### **Example:**

	A Ltd.	B Ltd.
Earnings	5,00,000	2,00,000
No. of Shares	100000	50000
Synergy Gain	1,00,00	0
E/R	0.50	

#### Calculate:

- a) EPS of A Ltd. before Merger.
- b) EPS of B Ltd. before Merger.
- c) Total Earnings after Merger.
- d) Total No. of Equity Shares after Merger.





**CA FINAL AFM SUMMARY NOTES** 

Mergers, Acquisitions & Corporate Restructuring

e) EPS after Merger or EPS A+B.

#### Solution:

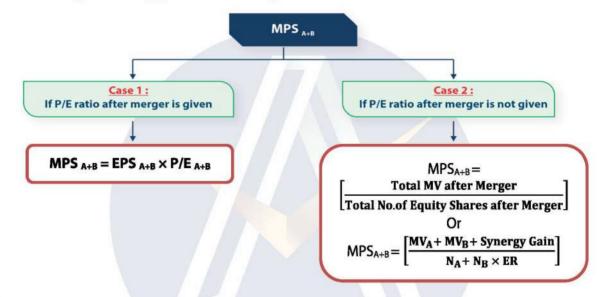
a) EPS<sub>A Ltd.</sub> = 
$$\frac{5,00,000}{1,00,000}$$
 = ₹ 5 per share

b) EPS<sub>B Ltd.</sub> = 
$$\frac{2,00,000}{50,000}$$
 = ₹ 4 per share

- Total Earnings A+B = 5,00,000 + 2,00,000 + 1,00,000 = 8,00,000
- Total No. of Shares  $_{A+B} = 1,00,000 + 50,000 \times 0.50 = 1,25,000$

e) 
$$EPS_{A+B} = \frac{5,00,000 + 2,00,000 + 1,00,000}{1,00,000 + 50,000 \times 0.50} = 6.40$$

#### 3. MPS after Merger or MPS<sub>A+B</sub> or MPS of a Merged Firm



#### Note:

- Answer by both alternative will be different.
- Alternative 1 should be preferred whenever any hint regarding P/E after merger is given in question.

#### 4. Market Value of Merged Firm or MV<sub>A+B</sub>

#### **Alternative 1:**

$$MV_{A+B} = MPS_{A+B} \times [N_A + N_B \times ER]$$

#### **Alternative 2:**

$$MV_{A+B} = MV_A + MV_B + Synergy$$

#### Note:

- Answer by both alternative will be different.
- Alternative 1 should be preferred

#### 5. Equivalent EPS of Target Co. in Merged Firm

Equivalent EPS of Target Co. in Merged Firm = EPS  $_{A+B} \times ER$ 

#### **Example:**

EPS  $_{A+B} = 15$ ; E/R (given to B Ltd.) = 0.40









#### Calculate Equivalent EPS of B Ltd. in Merged Firm?

#### Solution:

Equivalent EPS of B Ltd. in Merged Firm =  $15 \times 0.40 = ₹6$  per share

#### 6. Equivalent MPS of Target Co. in Merged Firm

Equivalent MPS of Target Co. in Merged Firm = MPS  $_{A+B} \times ER$ 

#### **QUESTION NO. 2A**

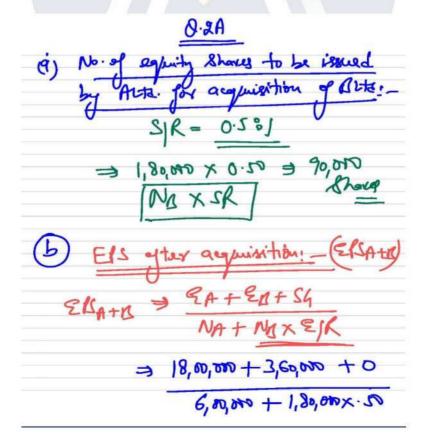
A Ltd. wants to acquire B Ltd. and has offered a swap ratio of 1:2 (0.5 shares for everyone share of B Ltd.). Following information is provided:

	A Ltd.	B Ltd.
Profit After Tax	₹ 18,00,000	₹3,60,000
Equity Shares Outstanding (Nos.)	6,00,000	1,80,000
EPS	₹3	₹2
P/E Ratio	10 times	7 times
Market Price per Share	₹30	₹14

#### Required:

Mergers, Acquisitions & Corporate Restructuring

- a) The number of equity shares to be issued by A Ltd. for acquisition of B Ltd.
- b) What is the EPS of A Ltd. after the acquisition?
- c) Determine the equivalent earnings per share of B Ltd.
- d) What is the expected market price per share of A Ltd. after the acquisition, assuming its PE multiple remains unchanged?
- e) Determine the market value of the merged firm.

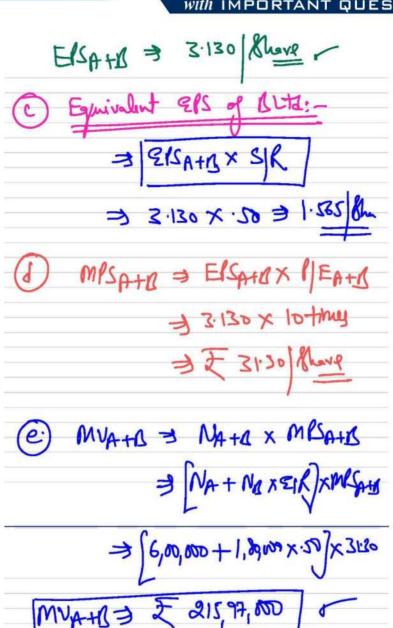












#### OS 4: Gain or Loss

- Merger may result into Gain/Loss for acquiring company & target Company.
- On the basis of EPS/MPS/Market Value (MV)

	A Ltd.	B Ltd.
MPS / EPS / MV after Merger	XXX	XXX
MPS / EPS / MV before Merger	XXX	XXX
Gain/ Loss	XXX	XXX

#### **QUESTION NO. 3A**

The following information is provided related to the acquiring Firm A Limited and the target Firm B Limited:

	Firm A Limited	Firm B Limited
Earning after tax (₹)	2,000 Lakhs	400 Lakhs
Number of shares outstanding	200 Lakhs	100 Lakhs







P/E ratio (times)	10	5
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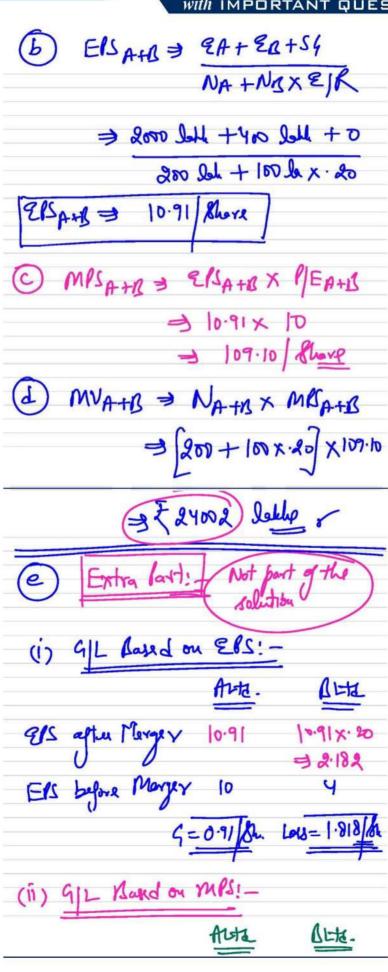
#### Required:

- a) What is the Swap Ratio based on current market prices?
- b) What is the EPS of A Limited after acquisition?
- c) What is the expected market price per share of A Limited after acquisition, assuming P/E ratio of A Limited remains unchanged?
- d) Determine the market value of the merged firm
- e) Calculate gain/loss for shareholders of the two independent companies after acquisition.

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#### **QUESTION NO. 3D**

ABC Ltd. is a company operating in the software industry. It is considering the acquisition of XYZ Ltd. which is also into software industry. The following information are available for the companies:

	ABC Ltd.	XYZ Ltd.
Earnings after tax (₹)	9,00,000	2,40,000
Number of equity shares	1,50,000	60,000
P/E ratio (no. of times)	14	10

ABC Ltd. is planning to offer a premium of 25% over the market price of XYZ Ltd. Required:

- (i) What is the swap ratio based on current market price?
- (ii) Find the number of shares to be issued by ABC Ltd. to the shareholders of XYZ Ltd.
- (iii) Compute the new EPS of ABC Ltd. after merger and comment on the impact of merger.
- (iv) Determine the market price of the share when P/E ratio remains unchanged.

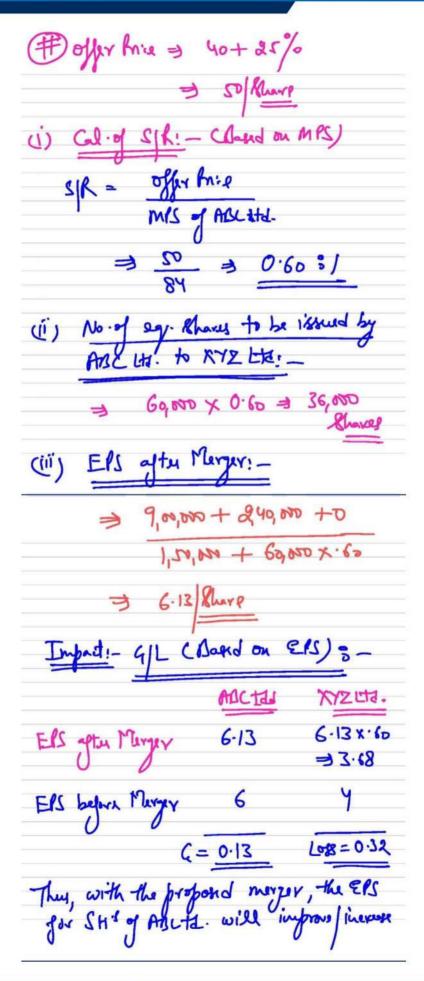




Compute the market price when P/E declines to 12 and comment on the results. Figures are to be rounded (v) off to 2 decimals.

Concept:- Perchan	Prize Bramium	= (PPP)
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#### **QUESTION NO. 3F**

B Ltd. wants to acquire S Ltd. and has offered a swap ratio of 2:3 (2 shares for every 3 share of S Ltd.) Following information is available:

Particulars	B Ltd.	S Ltd.
Profit after tax (in ₹)	21,00,000	4,50,000
Equity shares outstanding (Nos.)	6,00,000	1,80,000
EPS (in ₹)	3.5	2.5
PE Ratio	10 times	7 times













	Price	quoting	per	share	on	BSE	before	the	merger	35	17.5
l	annou	ıncement								33	17.5

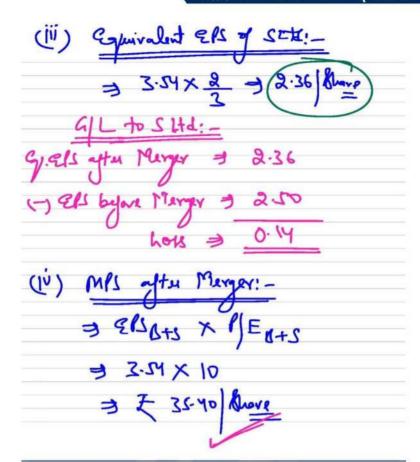
#### Required:

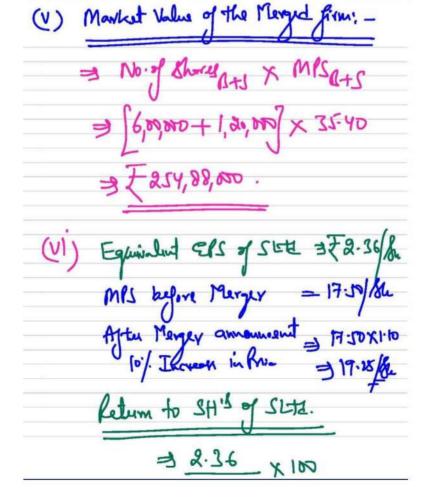
- (i) The number of equity shares to be issued by B Ltd. for acquisition of S Ltd.
- (ii) What is the EPS of B Ltd. after the acquisition?
- (iii) Determine the equivalent earnings per share of S Ltd. and calculate per share gain or loss to shareholders of S Ltd.
- (iv) What is the expected market price per share of B Ltd. after the acquisition, assuming its PE Multiple remains unchanged?
- (v) Determine the market value of the merged firm.
- (vi) After the announcement of merger, price of shares of S Ltd. rose by 10% on BSE. Mr. X, an investor, having 10,000 shares of S Ltd. is having another investment opportunity, which yields annual return of 14% is seeking your advice whether he needs to offload the shares in the market or accept the shares from B Ltd.

0.3F
SIR = 2:3
(1) No. of eghity shares rissued by OLTO.
= 1,80,000 × 2 => 1,20,000
(i) Els after acquisition:
=> E0+ Es + Sq
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0+ 000,00, V+ 000,00, 18 ¢
6,00,000 + 1,20,000
EA+S = 7 = 3.59 Marp











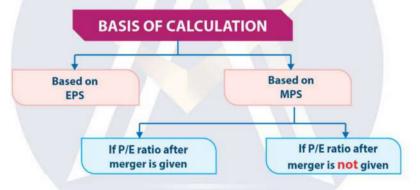




#### LOS 5: Maximum Exchange Ratio and Minimum Exchange Ratio

A= Acquiring Company → will try to keep exchange ratio as low as possible. Hence, we calculate maximum ER for acquiring company.

B= Target Company → will try to keep exchange ratio as high as possible. Hence, we calculate minimum ER for Target Company.



Case 1: On the basis of EPS:

a) Maximum Exchange ratio for A Ltd.

$$EPS \ before \ Merger = EPS \ after \ Merger$$

$$EPS_A = EPS_{A+B}$$

$$EPS_A = \frac{E_A + E_B + Synergy \ Gain}{N_A + N_B \times Exchange \ Ratio} \ ER$$
Solve for ER



b) Minimum Exchange ratio for B Ltd.

EPS before Merger = Equivalent EPS after Merger 
$$EPS_B = EPS_{A+B} \times ER$$

$$ESP_B = \left[\frac{E_A + E_B + Synergy \ Gain}{N_A + N_B \times Exchange \ Ratio}\right] \times ER$$
Solve for ER

Case 2: On the basis of MPS (If P/E Ratio after merge is given i.e. P/E(A+B) is given)

a) Maximum Exchange ratio for A Ltd.

$$MPS \ before \ Merger = MPS \ after \ Merger$$

$$MPS_A = MPS_{A+B}$$

$$MPS_A = EPS_{A+B} \times P/E_{(A+B)}$$

$$MPS_A = \left[\frac{E_A + E_B + Synergy \ Gain}{N_A + N_B \times Exchange \ Ratio}\right] \times P/E_{(A+B)}$$

$$Solve \ for \ ER$$

b) Minimum Exchange ratio for B Ltd.

$$MPS\ before\ Merger = Equivalent\ MPS\ after\ Merger$$

$$MPS_B = MPS_{A+B} \times ER$$

$$MPS_B = [EPS_{A+B} \times P/E_{(A+B)}] \times ER$$

$$MPS_B = \left[\frac{E_A + E_B + Synergy\ Gain}{N_A + N_B \times Exchange\ Ratio\ (ER)}\right] \times P/E_{(A+B)} \times ER$$

$$Solve\ for\ ER$$

Case 3: On the basis of MPS (If P/E Ratio after merge is not given):

a) Maximum Exchange ratio for A Ltd.

MPS before merger = MPS after merger 
$$\frac{\text{MPS}_A = \text{MPS}_{A+B}}{\text{MPS}_A = \frac{\text{MV}_A + \text{MV}_B + \text{Synergy Gain}}{\text{N}_A + \text{N}_B \times \text{Exchange Ratio} \times \text{ER}} }$$
 Solve for ER





#### b) Minimum Exchange ratio for B Ltd.

$$MPS \ before \ merger = Equivalent \ MPS \ after \ merger$$

$$MPS_B = MPS_{A+B} \times ER$$

$$MPS_B = \begin{bmatrix} MV_A + MV_B + Synergy \ Gain \\ N_A + N_B \times Exchange \ Ratio \ ER \end{bmatrix} \times ER$$

$$Solve \ for \ ER$$

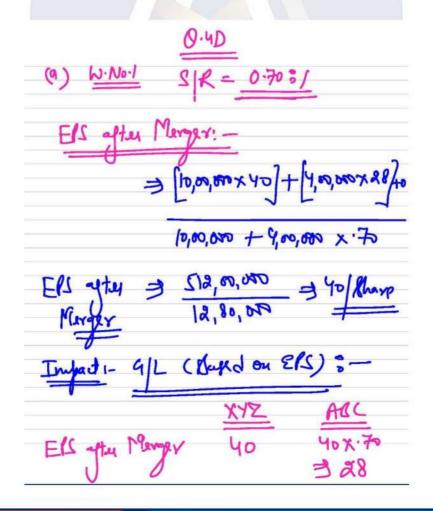
#### **QUESTION NO. 4D**

XYZ Ltd. wants to purchase ABC Ltd. by exchanging 0.7 of its share for each share of ABC Ltd. Relevant financial data are as follows:

Equity shares outstanding	1000000	400000
EPS (₹)	40	28
Market price per share (₹)	250	160

- a) Illustrate the impact of merger on EPS of both the companies.
- b) The management of ABC Ltd. has quoted a share exchange ratio of 1:1 for the merger. Assuming that P/E ratio of XYZ Ltd. will remain unchanged after the merger, what will be the gain from merger for ABC Ltd.?
- c) What will be the gain / loss to shareholders of XYZ Ltd.?
- d) Determine the maximum exchange ratio acceptable to shareholders of XYZ Ltd.

#### Solution:

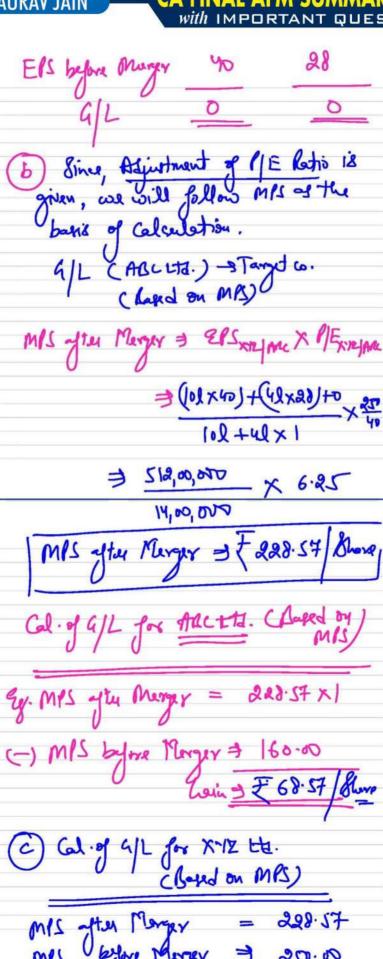
















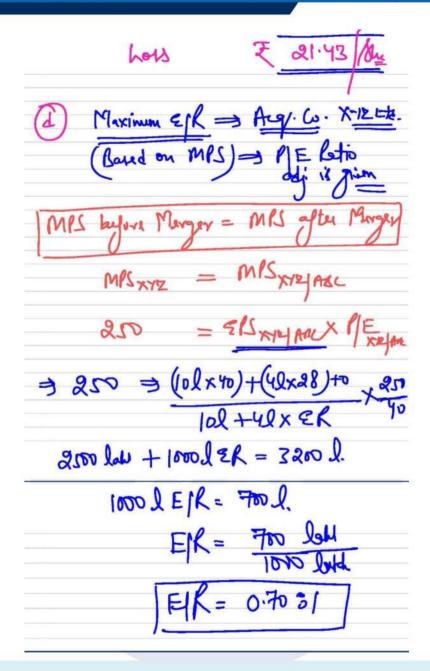
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#### **QUESTION NO. 4E**

C Ltd. & D Ltd. are contemplating a merger deal in which C Ltd. will acquire D Ltd. The relevant information about the firms are given as follows:

	C Ltd.	D Ltd.
Total Earnings (E) (in millions)	₹ 96	₹30
Number of outstanding shares (S) (in millions)	20	14
Earnings per share (EPS) (₹)	4.8	2.143
Price earnings ratio (P/E)	8	7
Market Price per share (P)(₹)	38.4	15

- What is the maximum exchange ratio acceptable to the shareholders of C Ltd., if the P/E ratio of the (i) combined firm is 7?
- What is the minimum exchange ratio acceptable to the shareholders of D Ltd., if the P/E ratio of the (ii) combined firm is 9?

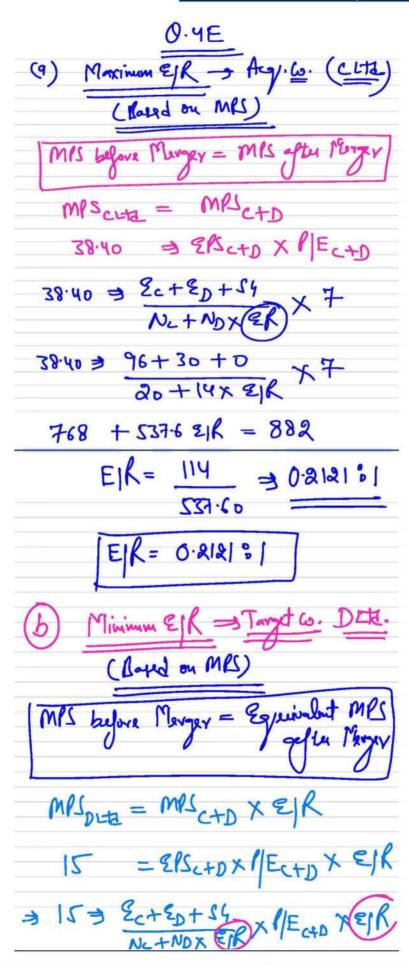


















#### LOS 6: Calculation of % of Holding in New Company

For A Ltd. = Total Number of shares of A Ltd.

Total Number of share of A Ltd.+Total Number of Shares issued to B Ltd.

For B Ltd. = Total Number of Shares issued to B Ltd.

Total Number of share of A Ltd.+Total Number of Shares issued to B Ltd.

#### LOS 7: Free Float Market Capitalization (Value)

- "Free Float" means shares which are freely available or freely tradable in the market. Shares held by promoters are not freely tradable in the market. There shares are subject to certain restrictions as placed by SEBI.
- A Firm's market float is the total value of the shares that are actually available to the investing public and excludes the value of shares held by controlling shareholders because they are unlikely to sell their shares.
- Sensex and Nifty is based on Free-Float market Capitalization.

Free Float Mkt Capitalization = Free float No. of equity shares ×MPS

Total No. of Equity Shares
(-)

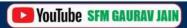
Promotors Holding / Management Holding /
Govt. Holding / Strategic Holding

#### **QUESTION NO. 5A**

The following information relating to the acquiring Company A Ltd. and the target Company B Ltd. are available. Both the Companies are promoted by Multinational Company, Trident Ltd.

The promoter's holding is 50% and 60% respectively in A Ltd. and B Ltd.:

	A Ltd.	B Ltd.
Share Capital (₹)	200 Lakhs	100 Lakhs
Free Reserves and Surplus (₹)	800 Lakhs	500 Lakhs
Paid up Value per share (₹)	100	10
Free Float Market Capitalization (₹)	400 Lakhs	128 Lakhs
P/E Ratio (times)	10	4







Trident Ltd. is interested to do justice to the shareholders of both the Companies. For the swap ratio weights are assigned to different parameters by the Board of Directors as follows:

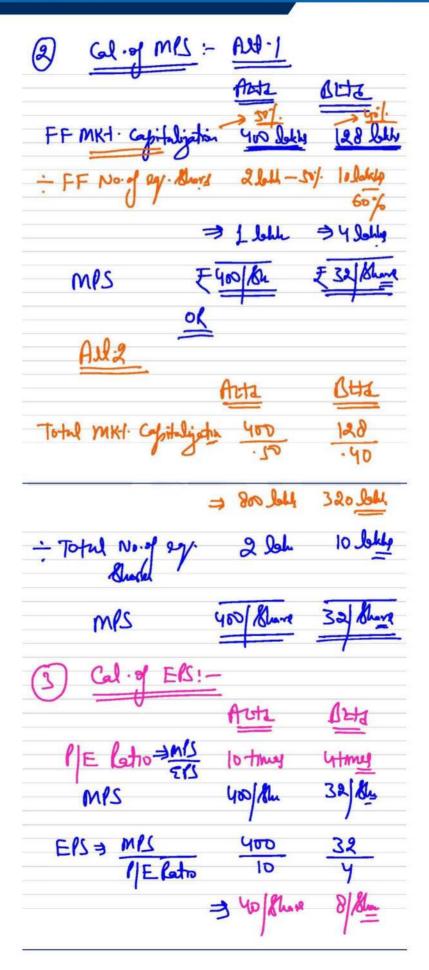
Book Value:	25%
EPS (Earning per share):	50%
Market Price:	25%

- a) What is the swap ratio based on above weights?
- b) What is the Book Value, EPS and expected Market price of A Ltd. after acquisition of B Ltd. (assuming P/E. ratio of A Ltd. remains unchanged and all assets and liabilities of B Ltd. are taken over at book value).
- c) Calculate:
  - (i) Promoter's revised holding in the A Ltd.
  - (ii) Free float market capitalization,
  - (iii) Also calculate No. of Shares, Earning per Share (EPS) and Book Value (B.V.), if after acquisition of B Ltd., A Ltd. decided to:
    - 1. Issue Bonus shares in the ratio of 1:2; and
    - 2. Split the stock (share) as ₹5 each fully paid

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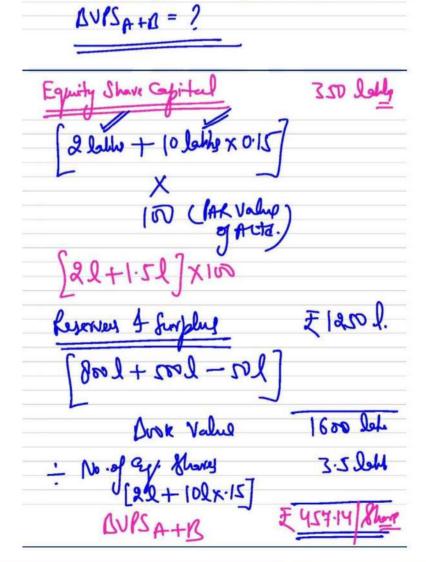








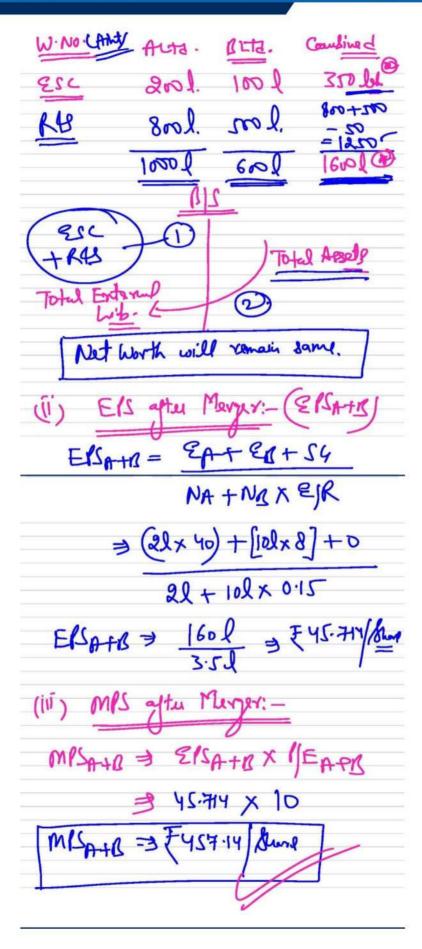
(9) Cal. of Swap lato: - = Target to Aug. Co.
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\$0.0€ 12. × 80.0 € 25 € 51M (8)
(3) ERS = 8 = 0.80 × .50 = 0.10
S/R = (0.15:17
(b) (i) Cal. of ENPS often Merger:-



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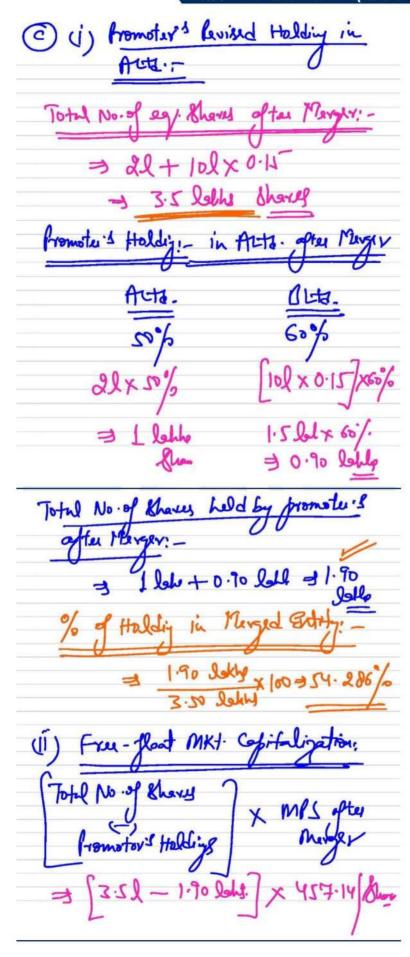








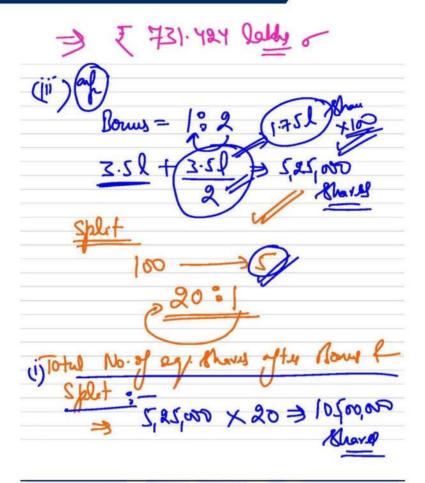


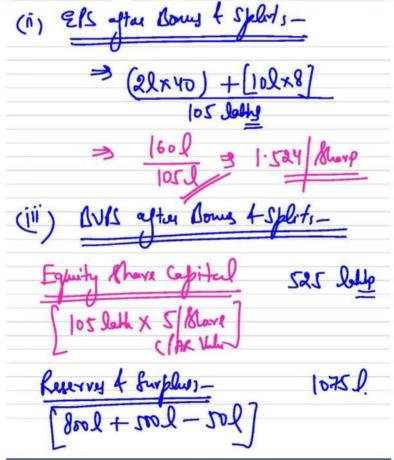






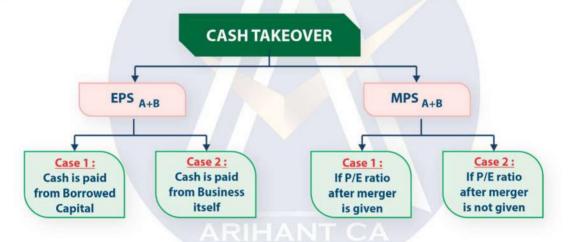








## LOS 8: Calculation of EPSA+B and MPSA+B in case of CASH TAKOVER



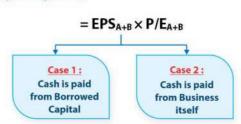
1. EPS A+B in case of cash take-over & cash is paid out of borrowed money

$$EPS_{A+B} = \left[\frac{E_A + E_B + Synergy Gain - Interest (1 - tax)}{N_A}\right]$$

2. EPS A+B in case of cash take-over & money is arranged from Business itself

$$\text{EPS}_{\text{A+B}} = \left[\frac{E_{\text{A}} + E_{\text{B}} + \text{Synergy Gain-Cash Paid} \times \text{Opportunity cost of interest}}{N_{\text{A}}}\right]$$

3. MPS A+B (If P/E ratio after merger is given)







#### 4. MPS A+B (If P/E ratio after merger is NOT given)

$$MPS_{A+B} = \left[\frac{MV_A + MV_B + Synergy \ Gain - Cash \ Paid}{N_A}\right]$$

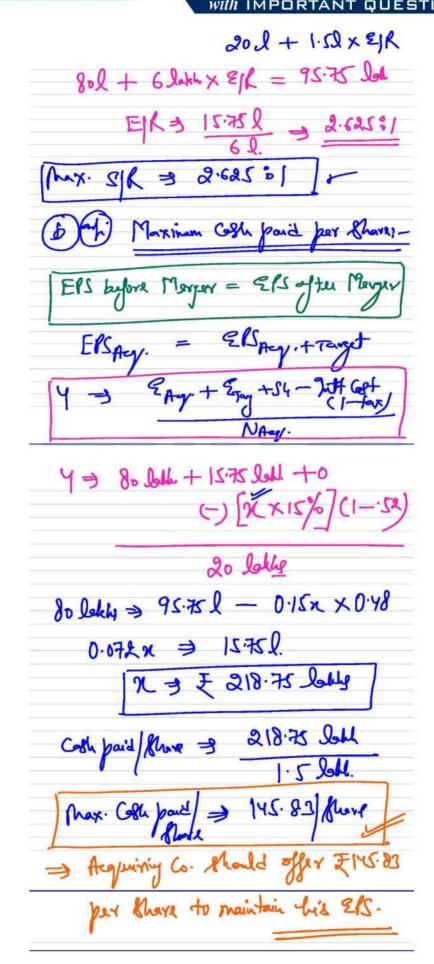
#### **QUESTION NO. 6A**

The chief executive of a company thinks that shareholders always look for the earnings per share. Therefore, he considers maximization of the earnings per share as his company's objective. His company's current net profits are ₹ 80 lakh and EPS is ₹ 4. The current market price is ₹ 42. He wants to buy another firm which has current income of ₹ 15.75 lacs, EPS of ₹ 10.50 and the market price per share of ₹ 85.

- a) What is the maximum exchange ratio which the chief executive should offer so that he could keep EPS at the current level?
- b) If the chief executive borrows funds at 15% rate of interest and buys out another company by paying cash, how much should he offer to maintain his EPS? Assume Tax Rate to be 52%.

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MS	42/8h	85/8/
(a) Max. Elk	Chardon (	ER):-
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4 3	F21 + L08	







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#### **QUESTION NO. 6B**

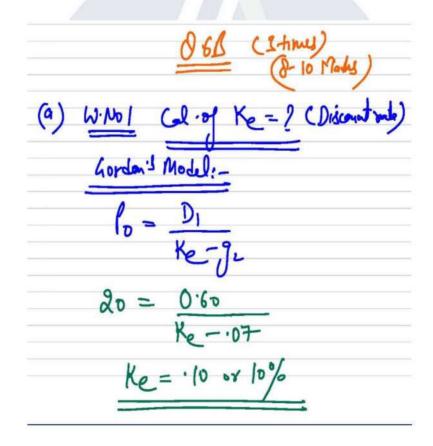
A Ltd. wanted to acquire B Ltd. The shares issued by the two companies are 10,00,000 and 5,00,000 respectively:

(i) Calculate the increase in the total value of B Ltd. resulting from the acquisition on the basis of the following conditions:

Current Expected Growth Rate of B Ltd.	7%
Expected Growth Rate under control of A Ltd. (without any additional capital investment & without any change in risk of operations)	8%
Current Market Price Per Share of A Ltd.	₹100
Current Market Price Per Share of B Ltd.	₹20
Expected Dividend Price Per Share of B Ltd.	₹0.60

- (ii) On the basis of aforesaid conditions calculate the gain or loss to shareholders of both the companies, If A Ltd. was to offer one of its shares for every four shares of B Ltd.
- (iii) Calculate the gain to the shareholders of both the companies, if A Ltd. pays ₹22 for each share of B Ltd. assuming the P/E Ratio of A Ltd. does not change after the merger. EPS of A Ltd. is ₹8 and that of B is ₹2.50. It is assumed that A Ltd. invests its cash to earn 10%.

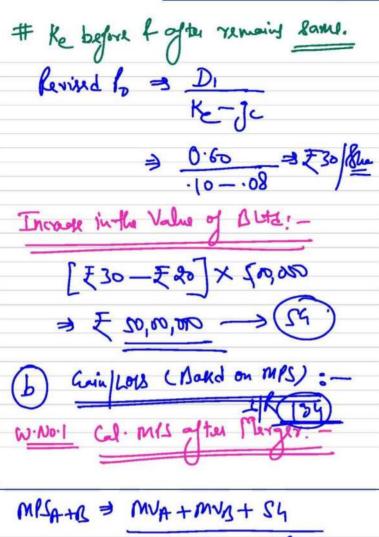
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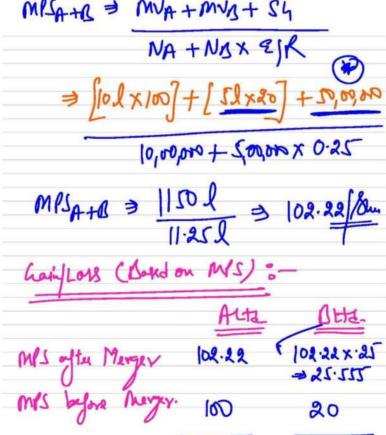








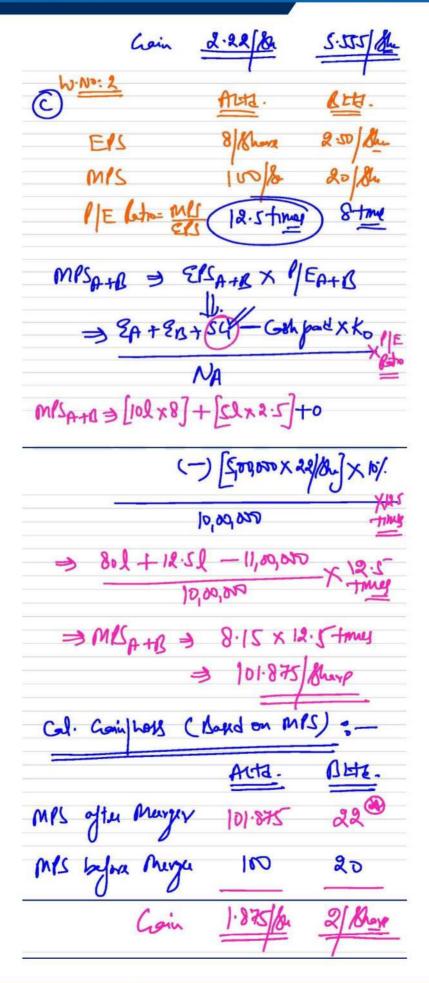
















#### .OS 10: Purchase Consideration / Cost of Acquisition

PC = Net Payment made by Acquiring Co. to Target Co.

Calculation of PC/ COA	
Market Value of Equity Shares Issued by A Ltd. to B Ltd.	XXX
(+) Debentures, Preference shares Capital Issued by A Ltd. to B Ltd.	XXX
(+) Current Liability paid or Taken over	XXX
(+) Any other expenses incurred	XXX
(-) Cash in hand or Bank	XXX
(-) Sale of any other asset not required in business	XXX
Cost of Acquisition / Purchase Consideration	XXX

#### Note:

- Cash and current Liabilities must be taken, even if question is Silent.
- Sale of any other asset not required should be taken only if clear indication in the Question.

#### **QUESTION NO. 8B**

M/s Tiger Ltd. wants to acquire M/s Leopard Ltd. The balance sheet of Leopard Ltd. as on 31st March, 2012 is as follows:

Liabilities	₹	Assets	₹
Equity Capital (70000 Shares)	7,00,000	Cash	50,000
Retained Earnings	3,00,000	Debtors	70,000
12% Debentures	3,00,000	Inventories	2,00,000
Creditors and Other liabilities	3,20,000	Plant & Equipment	13,00,000
	16,20,000		16,20,000

#### Additional Information:

- 1. Shareholders of Leopard Ltd will get one share in Tiger Ltd. for every two shares. External liabilities are expected to be settled at ₹ 5,00,000. Shares of Tiger Ltd would be issued at its current price of ₹ 15 per share. Debentures will get 13% convertible debentures in the purchasing Company for the same amount. Debtors and inventories are expected to realize ₹ 2,00,000.
- 2. Tiger Ltd. has decided to operate the business of Leopard Ltd. as a separate division. The division is likely to give cash flows (after tax) to the extent of ₹5,00,000 per year for 6 years. Tiger Ltd has planned that after 6 years, this division would be demerged and disposed of for ₹ 2, 00,000.
- 3. The Company's cost of capital is 16 %

Make a report to the Board of the Company advising them about the financial feasibility of this acquisition. Net Present Values for 16 % for Re. 1 are as follows:

Years	1	2	3	4	5	6
PV	0.862	0.743	0.641	0.552	0.476	0.410









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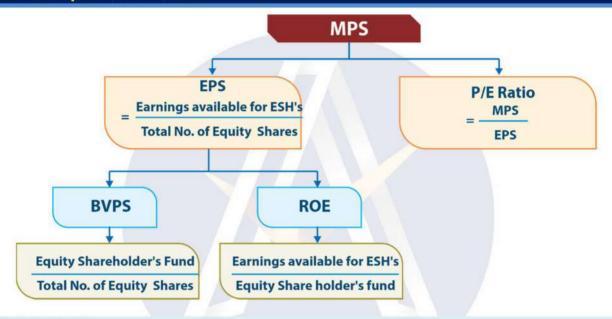




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#### **LOS 13: Components of MPS**



#### **QUESTION NO. 11A**

Following are the financial statement for A Ltd. and B Ltd. for the current financial year. Both the company operate in the same industry:

#### **Balance Sheet**

Particulars	A Ltd.	B Ltd.
Total Current Assets	14,00,000	10,00,000
Total Fixed Assets (net)	10,00,000	5,00,000
Total	24,00,000	15,00,000
Equity Capital (of ₹ 10 each)	10,00,000	8,00,000
Retained Earnings	2,00,000	_
4% Long-term Debt	5,00,000	3,00,000
Total Current Liabilities	7,00,000	4,00,000
Total	24,00,000	15,00,000
INCOM	ME STATEMENT	***
Net sales	34,50,000	17,00,000
Less : Cost of Goods Sold	27,60,000	13,60,000
Gross Profit	6,90,000	3,40,000





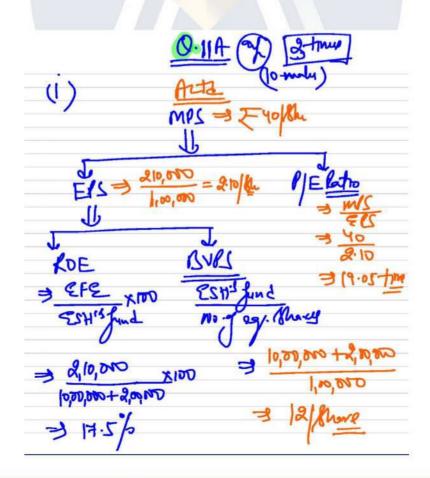




Operating Expenses	2,00,000	1,00,000
Interest	70,000	42,000
Earnings Before Taxes	4,20,000	1,98,000
Taxes (50%)	2,10,000	99,000
Earnings after taxes (EAT)	2,10,000	99,000
Additional Information:		
Number of Equity Shares	100000	80000
Dividend Payment Ratio (D/P)	40%	60%
Market Price Per Share (MPS)	₹40	₹ 15

Assume that the two firms are in the process of negotiating a merger through an exchange of equity shares. You have been asked to assist in establishing equitable exchange terms, and are required to-

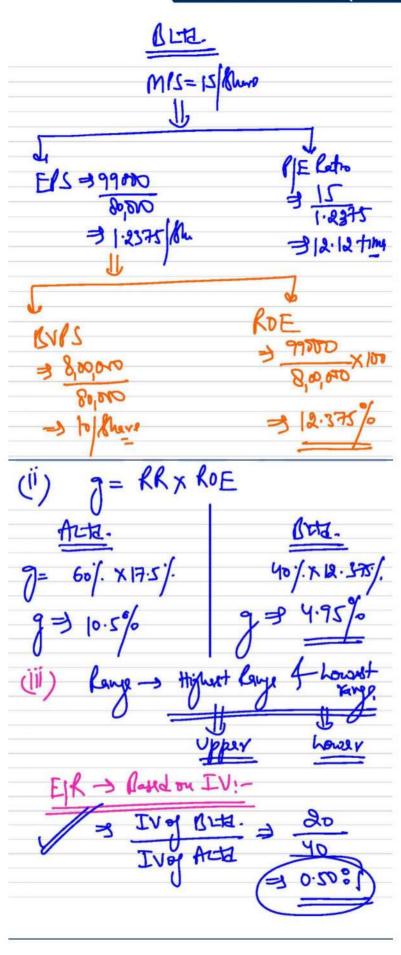
- (i) Decompose share prices of both companies into EPS & P/E components, & also segregate their EPS figures into return on equity (ROE) & book value/intrinsic value per share (BVPS) components.
- (ii) Estimate future EPS growth rates for each firm.
- (iii) Based on expected operating synergies A Ltd. estimates that the intrinsic value of B's equity share would be ₹ 20 per share on its acquisition . Assume A Ltd. Intrinsic Value to be equal to its Market Price. You are required to develop a range of justifiable equity share exchange ratio based on Intrinsic Value and MPS that can be offered by A Ltd. to B Ltd's shareholders. Based on your analysis in parts (i) and (ii) would you expect the negotiated terms to be closer to the upper, or the lower exchange ratio limits? Why?
- (iv) Calculate the post-merger EPS based on an exchange ratio of 0.4:1 being offered by A Ltd. Indicate the immediate EPS accretion or dilution, if any, that will occur for each group of shareholders.
- (v) Based on a 0.4:1 exchange ratio, and assuming that A's pre-merger P/E ratio will continue after the merger estimate the post-merger market price. Show the resulting accretion or dilution in pre-merger market price.









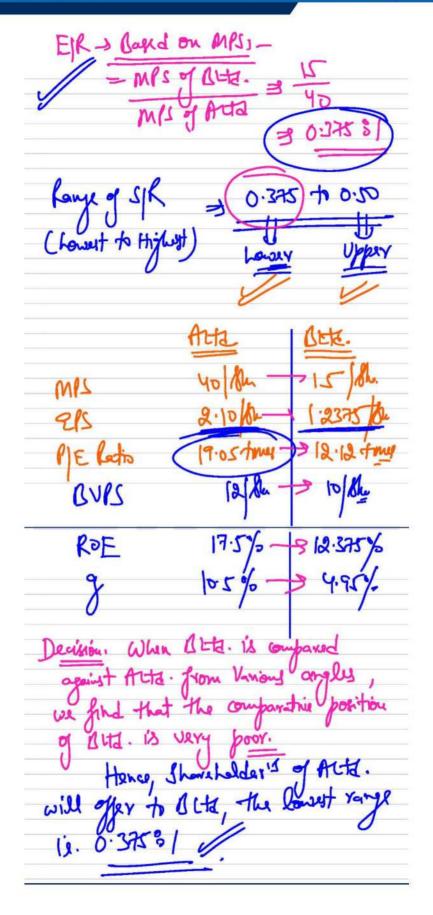








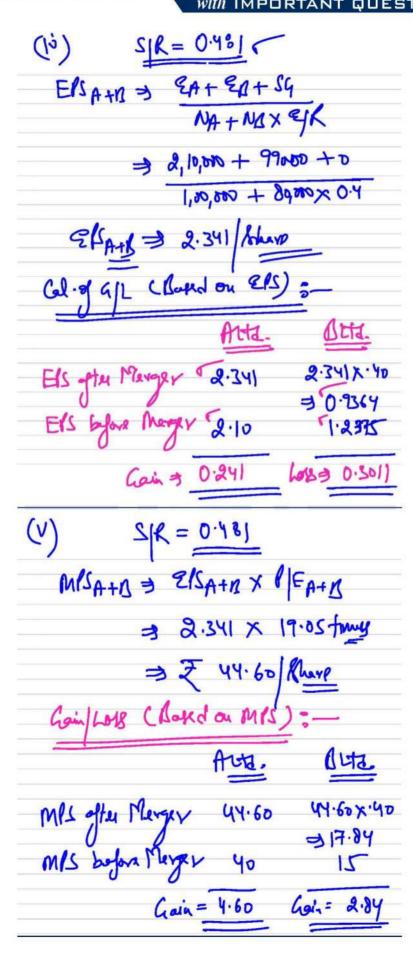


















# LOS 14: Maximum MPS & Minimum MPS

Minimum MPS offered by A Ltd. To B Ltd. =  $\frac{\text{Value of Equity of B Ltd.}}{\text{No. of Equity Shares of B Ltd.}}$ 

Maximum MPS offered by A Ltd. To B Ltd. = Value of Equity of B Ltd. +Value of Synergy
No. of Equity Shares of B Ltd.

# **QUESTION NO. 12B**

The equity shares of XYZ Ltd. are currently being traded at ₹ 24 per share in the market. XYZ Ltd. has total 10,00,000 equity shares outstanding in number; and promoters' equity holding in the company is 40%.

PQR Ltd. wishes to acquire XYZ Ltd. because of likely synergies. The estimated present value of these synergies is ₹ 80,00,000.

Further PQR feels that management of XYZ Ltd. has been over paid. With better motivation, lower salaries and fewer perks for the top management, will lead to savings of ₹ 4,00,000 p.a. Top management with their families are promoters of XYZ Ltd. Present value of these savings would add ₹ 30,00,000 in value to the acquisition.

Following additional information is available regarding PQR Ltd.:

Earnings per share:	₹4
Total number of equity shares outstanding:	15,00,000
Market price of equity share:	₹ 40

#### Required:

- (i) What is the maximum price per equity share which PQR Ltd. can offer to pay for XYZ Ltd.?
- (ii) What is the minimum price per equity share at which the management of XYZ Ltd. will be willing to offer their controlling interest?

# Solution:

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#### **QUESTION NO. 12D**

R Ltd. and S Ltd. operating in same industry are not experiencing any rapid growth but providing a steady stream of earnings. R Ltd.'s management is interested in acquisition of S. Ltd. due to its excess plant capacity. Share of S Ltd. is trading in market at ₹ 3.20 each. Other data relating to S Ltd. is as follows:

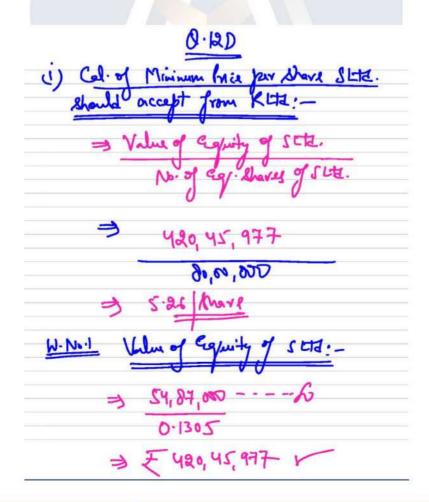
Balance Sheet of S Ltd.

Liabilities	Amount (₹)	Assets	Amount (₹)
Current Liabilities	1,59,80,000	Current Assets	2,48,75,000
Long Term Liabilities	1,28,00,000	Other Assets	94,00,000
Reserve & Surplus	2,79,95,000	Property Plants &	3,45,00,000
Share Capital (80 Lakhs shares of ₹ 1.5 each)	1,20,00,000	Equipment	
Total	6,87,75,000	Total	6,87,75,000

Particulars	R Ltd. (₹)	S Ltd. (₹)	Combined Entity (₹)
Profit after Tax	86,50,000	49,72,000	1,21,85,000
Residual Net Cash Flows per year	90,10,000	54,87,000	1,85,00,000
Required return on equity	13.75%	13.05%	12.5%

# You are required to compute the following:

- (i) Minimum price per share S Ltd. should accept from R Ltd.
- (ii) Maximum price per share R Ltd. shall be willing to offer to S Ltd.
- (iii) Floor Value of per share of S Ltd., whether it shall play any role in decision for its acquisition by R Ltd.

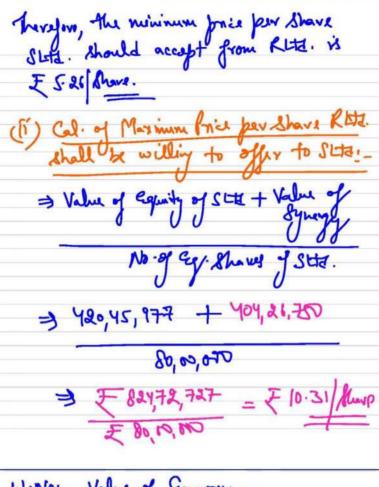


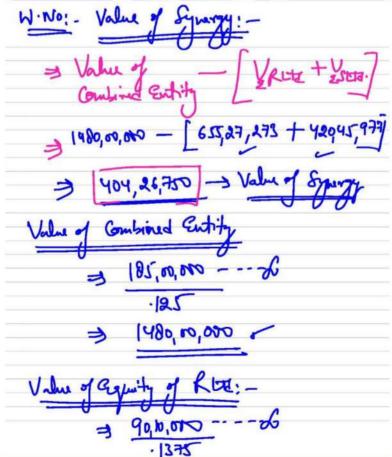










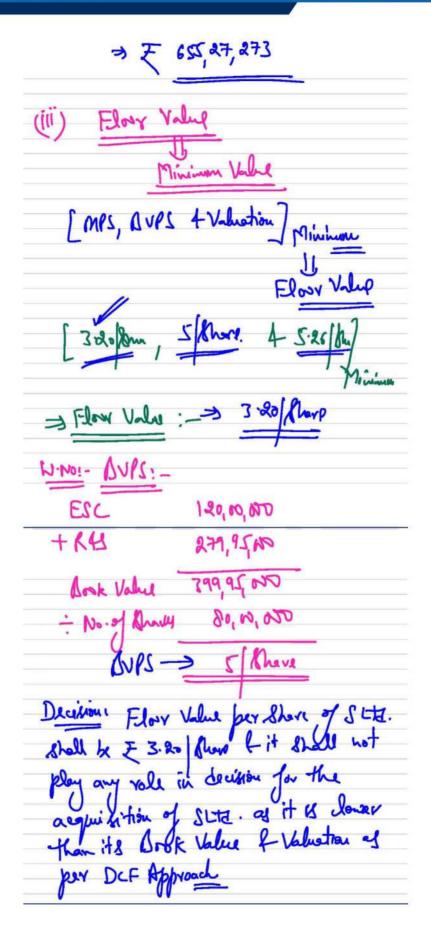


















# **CA FINAL AFM SUMMARY NOTES** with IMPORTANT QUESTI

# LOS 15: Valuation + Merger

#### **QUESTION NO. 13B**

ICL is proposing to take over SVL with an objective to diversify. ICL's profit after tax (PAT) has grown @ 18 per cent per annum and SVL's PAT is grown @ 15 per cent per annum. Both the companies pay dividend regularly. The summarised Profit & Loss Account of both the companies are as follows:

#### ₹ in Crores

Particulars	ICL	SVL
Net Sales	4,545	1,500
PBIT	2,980	720
Interest	750	25
Provision for Tax	1,440	445
PAT	790	250
Dividends	235	125

	ICL		\$	SVL
Fixed Assets				
Land & Building (Net)	720		190	
Plant & Machinery (Net)	900		350	
Furniture & Fixtures (Net)	30	1,650	10	550
Current Assets		775		580
Less: Current Liabilities				
Creditors	230		130	
Overdrafts	35		10	
Provision for Tax	145		50	
Provision for dividends	60	470	50	240
Net Assets		1,955	/	890
Paid up Share Capital (₹ 10 per share)	250		125	
Reserves and Surplus	1,050	1,300	660	785
Borrowing	RIHANTO	655		105
Capital Employed		1,955		890
Market Price Share (₹)	52	75		

ICL's Land & Buildings are stated at current prices. SVL's Land & Buildings are revalued three years ago. There has been an increase of 30 per cent per year in the value of Land & Buildings.

SVL is expected to grow @ 18 per cent each year, after merger.

ICL's Management wants to determine the premium on the shares over the current market price which can be paid on the acquisition of SVL. You are required to determine the premium using:

- (i) Net Worth adjusted for the current value of Land & Buildings plus the estimated average profit after tax (PAT) for the next five years.
- (ii) The dividend growth formula.
- (iii) ICL will push forward which method during the course of negotiations?

Period (t)	1	2	3	4	5
FVIF (30%, t)	1.300	1.690	2.197	2.856	3.713
FVIF (15%, t)	1.15	2.4725	3.9938	5.7424	7.7537



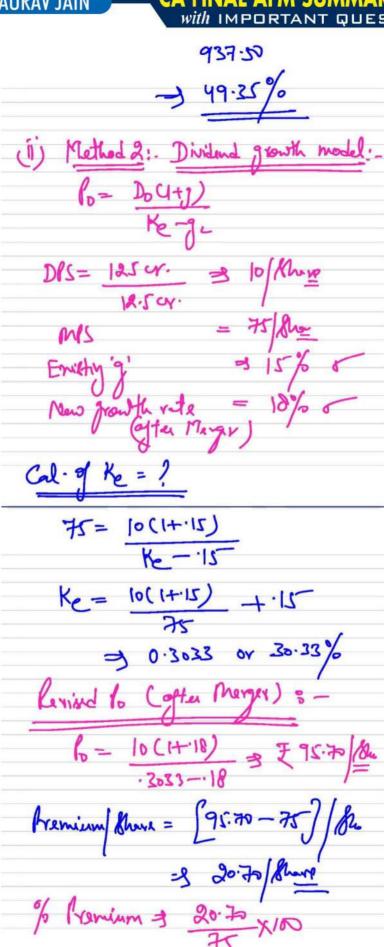
# Solution:

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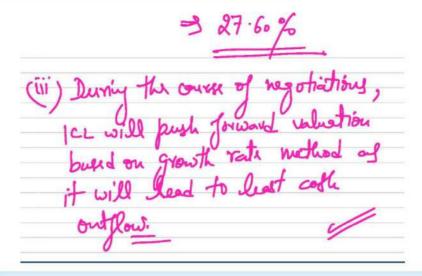


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#### **QUESTION NO. 13C**

Yes Ltd. wants to acquire No Ltd. and the cash flows of Yes Ltd. and the merged entity are given below:

(₹ In lacs)

Year	1	2	3	4	5
Yes Ltd.	175	200	320	340	350
Merged Entity	400	450	525	590	620

Earnings would have witnessed 5% constant growth rate without merger and 6% with merger on account of economies of operations after 5 years in each case. The cost of capital is 15%.

The number of shares outstanding in both the companies before the merger is the same and the companies agree to an exchange ratio of 0.5 shares of Yes Ltd. for each share of No Ltd.

PV factor at 15% for years 1-5 are 0.870, 0.756; 0.658, 0.572, 0.497 respectively. You are required to:

- (i) Compute the Value of Yes Ltd. before and after merger.
- (ii) Value of Acquisition and
- (iii) Gain to shareholders of Yes Ltd.

#### Solution:





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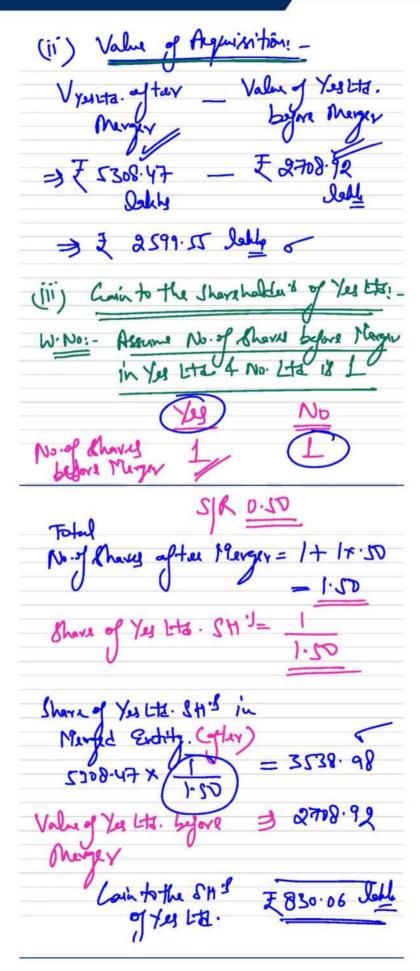
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#### **QUESTION NO. 13D**

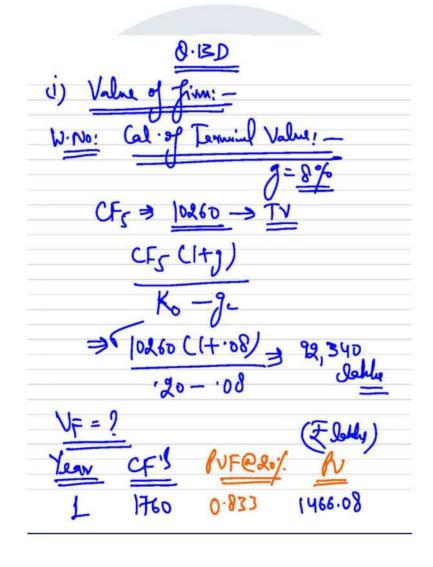
Mr. X, a financial analyst, intends to value the business of PQR Ltd. in terms of the future cash generating capacity. He has projected the following after tax cash flows:

Year:	1	2	3	4	5
Cash flows (₹ in lakh)	1,760	480	640	860	1,170

It is further estimated that beyond 5th year, cash flows will perpetuate at a constant growth rate of 8% per annum, mainly on account of inflation. The perpetual cash flow is estimated to be ₹ 10,260 lakh at the end of the 5th year.

#### Required:

- What is the value of the firm in terms of expected future cash flows, if the cost of capital of the firm is 20%. (i)
- The firm has outstanding debts of ₹ 3,620 lakh and cash/bank balance of ₹ 2,710 lakh. Calculate the shareholder value per share if the number of outstanding shares is 151.50 lakh.
- (iii) The firm has received a takeover bid from XYZ ltd. of ₹ 225 per share. Is it a good offer? [Given: PVIF at 20% for year 1 to Year 5: 0.833, 0.694, 0.579, 0.482, 0.402]









2	480	0.694	333-12
3	640	0-579	32.052
9	860	0.482	414.52
_5	1170	0-402	470.34
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# LOS 16: Calculation of Bonus Ratio

# **QUESTION NO. 14A**

Trupti Co. Ltd. promoted by a Multinational group "INTERNATIONAL INC" is listed on stock exchange holding 84 % i.e. 63 Lakhs shares.

Profit after Tax is	₹ 4.80 Crores
Free Float Market Capitalization is	₹ 19.20 Crores







# CA FINAL AFM SUMMARY NOTES

with IMPORTANT QUESTIONS



Mergers, Acquisitions & Corporate Restructuring

M

As per the SEBI guidelines promoters have to restrict their holding to 75 % to avoid delisting from the stock exchange. Board of Directors has decided not to delist the share but to comply with the SEBI guidelines by issuing Bonus shares to minority shareholders while maintaining the same P/E ratio.

#### Calculate:

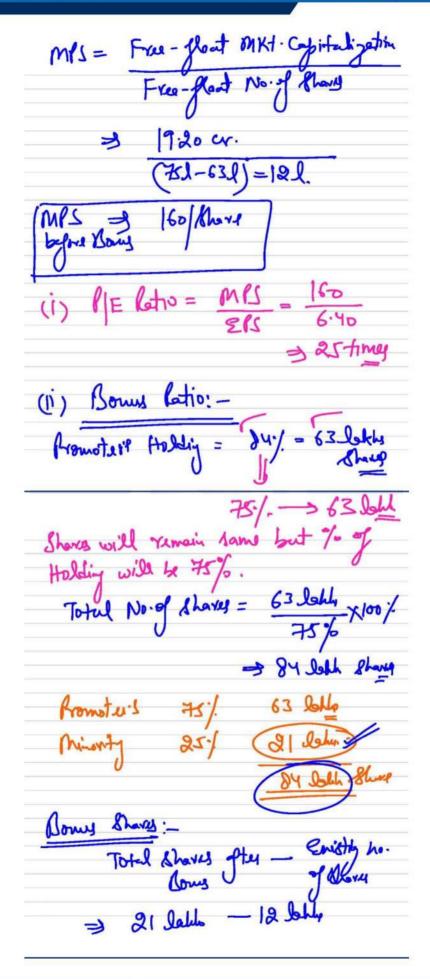
- a) P/E ratio
- b) Bonus Ratio
- c) Market price of share before and after the issue of bonus shares.
- d) Free Float Market Capitalization of the Company after the bonus shares.

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Total No. of ey. Chever = 63 lehe x 100%.
EPS = 4.80 cr 6.40/Rhave











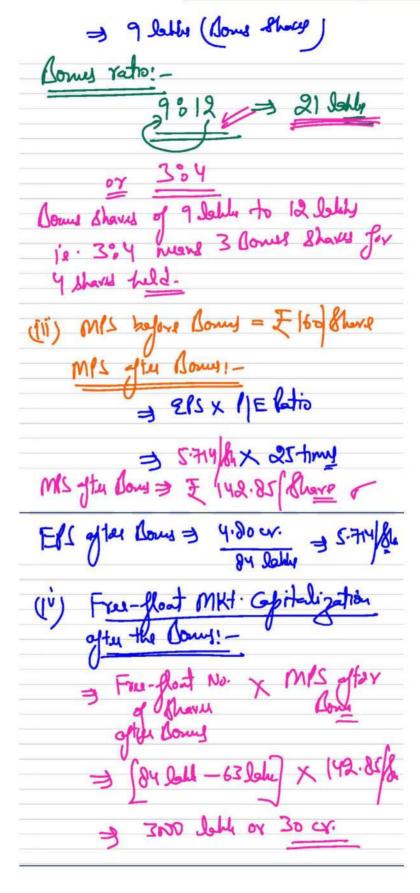




# CA FINAL AFM SUMMARY NOTES



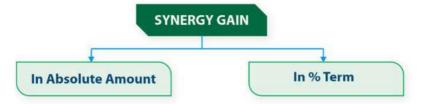








# LOS 17: Calculation of EPS A+B when Synergy Gain is Given in Question



# 1. EPS<sub>A+B</sub> when Synergy Gain is Expressed in %

$$EPS_{A+B} = \left[\frac{(E_A + E_B) (1 + Synergy Gain)}{N_A + N_B \times ER}\right]$$

## 2. EPSA+B when Synergy Gain is Expressed in Absolute Amount

$$EPS_{A+B} = \left[\frac{E_A + E_B + Synergy Gain}{N_A + N_B \times ER}\right]$$

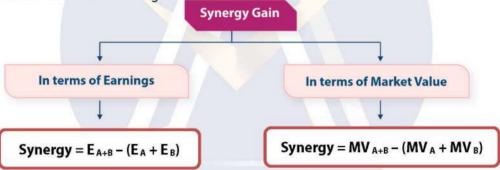
#### Note:

Mergers, Acquisitions & Corporate Restructuring

If question is silent regarding Synergy Gain, assume it to be NIL.

# Synergy Gain - In terms of Earnings & Market Value

Synergy means extra - benefit/advantage.



#### **QUESTION NO. 15B**

Two companies Bull Ltd. and Bear Ltd. recently have been merged. The merger initiative has been taken by Bull Ltd. to achieve a lower risk profile for the combined firm in spite of fact that both companies belong to different industries and disclose a little co-movement in their profit earning streams. Though there is likely to synergy benefits to the tune of ₹7 crore from proposed merger. Further both companies are equity financed and other details are as follows:

	Market Capitalization	Beta
Bull Ltd.	₹1000 crore	1.50
Bear Ltd.	₹500 crore	0.60

Expected Market Return and Risk Free Rate of Return are 13% and 8% respectively. Shares of merged entity have been distributed in the ratio of 2:1 i.e. market capitalization just before merger.

#### You are required to:

- (a) Calculate return on shares of both companies before merger and after merger.
- (b) Calculate the impact of merger on Mr. X, a shareholder holding 4% shares in Bull Ltd. and 2% share of Bear Ltd.





0.120 (a) Expected Return whiley CAPMIand ita: LERN= RF+ &[Kn-RF] ECK) => 8% + 1.2[13/ -8/] \$ 15.5 E Dear Ltd. => 8/ + 0.60 [13/. - 8/.] After Merger Neta of Menged Entity Weighted Arg. of Oda (2:1) 7 1.2xx + 0.60x = 15+mm EIR) = 8/. + 1.20 [ 13/. - 8/] Impart of Merger on Mr. X' =-% of Holding before Menger: and Etd. 4/ 9 1000 cr. Acortal 27. of 200 cr. of 10 cr. of Mr. X offer Merger.



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# LOS 18: True Cost & True Benefit of Merger

# **True Cost & Benefit of Merger**

# Case 1: When Merger is Financed by Cash

## For Acquiring company (A Ltd.)

Cost to A Ltd.

= Cash paid to B Ltd. - MV<sub>B Ltd</sub> received

Benefit of Merger (Synergy Gain)

 $=MV_{A+B}-(MV_{A Ltd.}+MV_{B Ltd.})$ 

Net Benefit (NPV) = Benefit - Cost

## For Target Company (B Ltd.)

Benefit (Net Benefit)

= Cash Received - MV<sub>B Ltd.</sub> sacrificed

# Case 2: When Merger is Financed by Stock

#### For Acquiring company (A Ltd.)

Cost to A Ltd.

= MV<sub>A+B</sub> × % Holding of B Ltd. - MV<sub>B Ltd.</sub> received

Benefit of Merger (Synergy Gain)

 $=MV_{A+B}-(MV_{A Ltd.}+MV_{B Ltd.})$ 

Net Benefit (NPV) = Benefit - Cost

# For Target Company (B Ltd.)

Benefit (Net Benefit)

= MV<sub>A+B</sub> × % Holding of B Ltd.- MV<sub>B Ltd.</sub> sacrificed

#### Note:

Cost of A Ltd. = Benefit for B Ltd.

#### **QUESTION NO. 16C**

Given is the following information:

	Day Ltd.	Night Ltd.
Net Earnings	₹5 crores	₹ 3.5 crores
No. of Equity Shares	10,00,000	7,00,000

The shares of Day Ltd. and Night Ltd. trade at 20 and 15 times their respective P/E ratios.

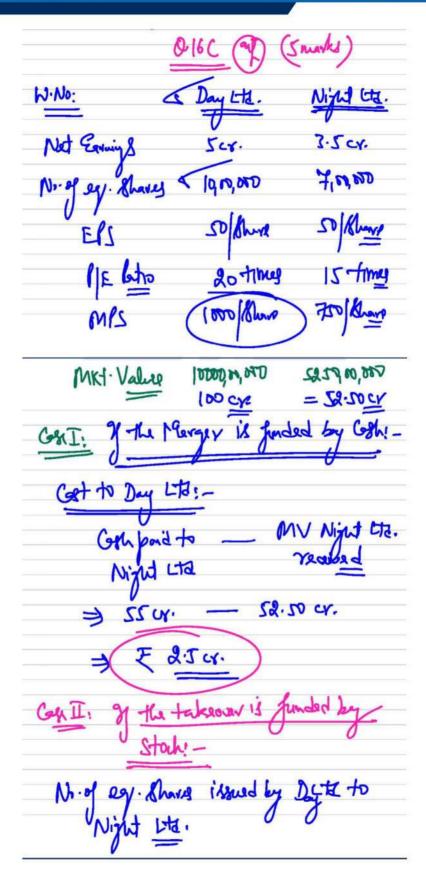
Day Ltd. considers taking over Night Ltd. By paying ₹ 55 crores considering that the market price of Night Ltd. reflects its true value. It is considering both the following options:

- 1. Takeover is funded entirely in cash.
- Takeover is funded entirely in stock.

You are required to calculate the cost of the takeover and advise Day Ltd. on the best alternative.



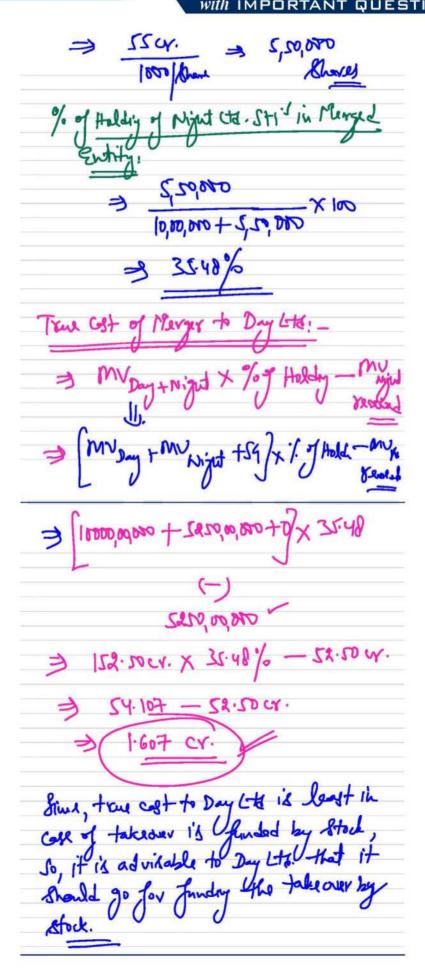
















#### **QUESTION NO. 16D**

Long Ltd., is planning to acquire Tall Ltd., with the following data available for both the companies:

	Long Ltd.	Tall Ltd.
Expected EPS	₹12	₹5
Expected DPS	₹10	₹3
No. of Shares	30,00,000	18,00,000
Current Market Price of Share	₹ 180	₹50

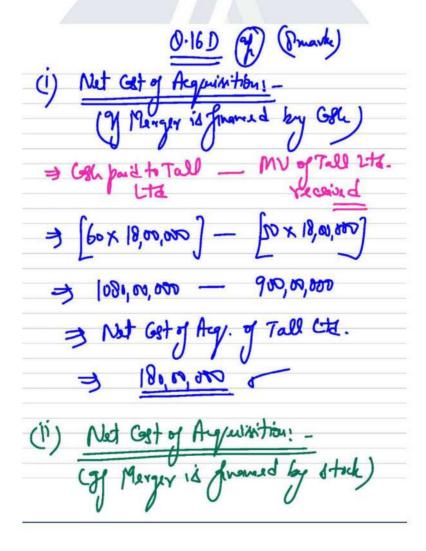
As per an estimate Tall Ltd., is expected to have steady growth of earnings and dividends to the tune of 6% per annum. However, under the new management the growth rate is likely to be enhanced to 8% per annum without additional investment.

# You are required to:

Calculate the net cost of acquisition by Long Ltd., if ₹ 60 is paid for each share of Tall Ltd.

If the agreed exchange ratio is one share of Long Ltd., for every three shares of Tall Ltd., in lieu of the cash acquisition as per (i) above, what will be the net cost of acquisition?

Calculate Gain from acquisition.







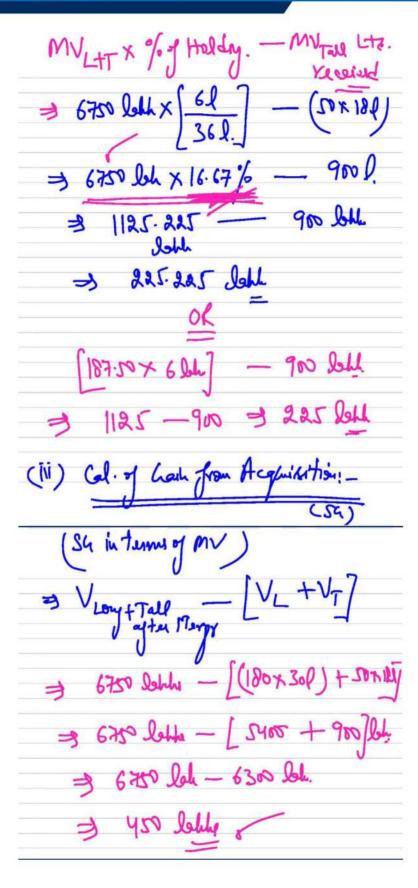




# SIR 1:3 No. of acy. Shares issued = 18,00,000 3 600000 Sheve Total Adumber of Chaves = 390,000+ Gog 500 W.No.1: - Col . of Ke = ? 10 = D1 = SD = 3 Ke-gc Ke-.06 New 9 = 8% Revind to of DI = (Tall the) Ke-ge W. No:-2 Col. of MV Long + Tall Ltz: 3 MVL +MVT +SY = [301×180]+[181×15]+0 > 6750 lette Value Blove = 6750 loh = 187:54/h Not Get of Acquirition: (Stock Takeour)















# CA FINAL AFM SUMMARY NOTES

# OS 20: Financial Restructuring/Internal Re-Construction

- Financial restructuring refers to a kind of internal changes made by the management in Assets and Liabilities of a company with the consent of its various stakeholders. This is a suitable mode of restructuring for corporate entities who have suffered from sizeable losses over a period of time. Consequent upon losses the share capital or net worth of such companies get substantially eroded. In fact, in some cases, the accumulated losses are even more than the share capital and thus leading to negative net worth, putting the firm on the verge of liquidation.
- In order to revive such firms, financial restructuring is one of the techniques to bring into health such firms who are having potential and promise for better financial performance in the years to come. To achieve this desired objective, such firms need to re-start with a fresh balance sheet free from losses and fictitious assets and show share capital at its real true worth.

# Impact of Financial Restructuring

- 1. Benefits to XYZ Ltd.
  - a) Reduction in Liabilities
  - b) Revaluation of Assets

#### **Total Benefits**

2. Amount of Benefit will be utilized to Written Off Fictitious Assets, Profit & Loss Dr. Bal., Provision for Doubtful Debts and over-valued Assets.

Note: In case amount to be written-off is less than the total benefit of re-structuring, the balance amount will be transferred to Capital Reserve account.

#### **QUESTION NO. 18B**

The following is the Balance-sheet of Grape Fruit Company Ltd as on March 31st 2011.

Liabilities	***	Assets	(₹ in lacs)
6 lacs equity shares of ₹100/- each	600	Land & Building	200
2 lacs 14% Preference shares of ₹100/-each	200	Plant & Machinery	300
13% Debentures	200	Furnitures & Fixtures	50
Debenture Interest accrued and Payable	26	Inventory	150
Loan from Bank	74	Sundry debtors	70
Trade Creditors	340	Cash at Bank	130
		Preliminary Expenses	10
		Cost of Issue of debentures	5
		Profit & Loss A/c	525
	1440		1440

The Company did not perform well and has suffered sizable losses during the last few years. However, it is now felt that the company can be nursed back to health by proper financial restructuring and consequently the following scheme of reconstruction has been devised:

- (i) Equity shares are to be reduced to ₹25/- per share, fully paid up;
- (ii) Preference shares are to be reduced (with coupon rate of 10%) to equal number of shares of ₹50 each fully
- (iii) Debenture holders have agreed to forego interest accrued to them. Beside this, they have agreed to accept new debentures carrying a coupon rate of 9%.
- (iv) Trade creditors have agreed to forgo 25 per cent of the amount due to them.





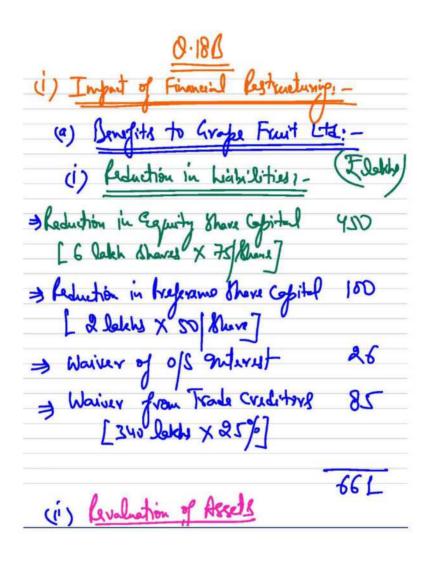




- (v) The company issues 6 lac of equity shares at ₹25/- each and the entire sum was to be paid on application. The existing shareholders have agreed to subscribe to the new issue.
- (vi) While Land and Building is to be revalued at ₹450 lacs, Plant & Machinery is to be written down to ₹120 lacs. A provision amounting to ₹15 lacs is to be made for bad and doubtful debts.

# You are required to

- a) Show the impact of financial restructuring/re-construction
- b) Prepare the fresh balance sheet after the reconstructions is completed on the basis of the above proposals.









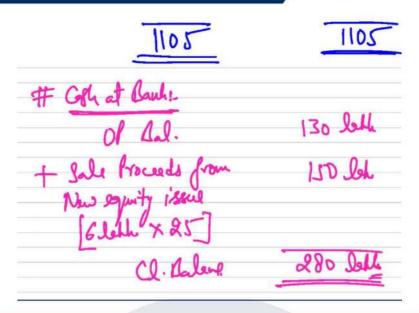


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# LOS 21: Demerger

Mergers, Acquisitions & Corporate Restructuring

- A Corporate strategy to sell-off subsidiaries or divisions of a company. The act of splitting off a part of an existing company to become a new company, which operates completely separate from the original company.
- Shareholders of the original company are usually given an equivalent stake of ownership in the new company.
- A demerger is often done to help each of the segments operate more smoothly, as they can now focus on a more specific task.

#### **QUESTION NO. 19**

The following information is relating to Fortune India Ltd. having two division, viz. Pharma Division and Fast Moving Consumer Goods Division (FMCG Division). Paid up share capital of Fortune India Ltd. is consisting of 3,000 Lacs equity shares of Re. 1 each. Fortune India Ltd. decided to de merge Pharma Division as Fortune Pharma Ltd. w.e.f. 1.4.2005. Details of Fortune India Ltd. as on 31.3.2005 and of Fortune Pharma Ltd. as on 1.4.2005 are given below.

Particulars	Fortune Pharma Ltd. (₹ in Lakhs)	Fortune India Ltd. (₹ in Lakhs)		
Outside Liabilities				
Secured Loans	400	3,000		
Unsecured Loans	2,400	800		
Current Liabilities & Provisions	1,300	21,200		
Assets				
Fixed Assets	7,740	20,400		
Investments	7,600	12,300		
Current Assets	8,800	30,200		
Loans & Advances	900	7,300		
Deferred Tax	60	_		
Miscellaneous Expenses Outstanding	_	(200)		

Board of Directors of the Company has decided to issue necessary equity shares of Fortune Pharma Ltd. of Re. 1 each, without any consideration to the shareholders of Fortune India Ltd. For that purposes following points are to be considered









# **CA FINAL AFM SUMMARY NOTES**

- Transfer of Liabilities & Assets at Book value.
- 2. Estimated Profit for the year 2005-06 is ₹ 11,400 Lakh for Fortune India Ltd. &₹ 1,470 lacs for Fortune Pharma Ltd.
- 3. Estimated Market Price of Fortune Pharma Ltd. is ₹ 24.50 per share.
- 4. Average P/E Ratio of FMCG sector is 42 & Pharma sector is 25, which is to be expected for both the companies.

#### Calculate:

- The Ratio in which shares of Fortune Pharma are to be issued to the shareholders of Fortune India Ltd.
- b) Expected Market price of Fortune India Ltd.
- c) Book Value per share of both the Companies immediately after Demerger.

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# CA FINAL AFM SUMMARY

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# LOS 22: Banking Merger & Acquisition

## CAR/CRAR (Capital Adequacy Ratio/ Capital Risk Weight Asset Ratio)

The capital adequacy ratio (CAR) is an indicator of how well a bank can meet its obligations. Also known as the capital-to-risk weighted assets ratio (CRAR), the ratio compares capital to risk-weighted assets and is watched by regulators to determine a bank's risk of failure. It's used to protect depositors and promote the stability and efficiency of financial systems around the world.

$$\mathsf{CAR} = \frac{\mathit{Capital}}{\mathit{Risk Weighted Assets}}$$

- CAR is critical to ensure that banks have a large enough financial cushion to absorb a reasonable amount of losses before they become insolvent.
- CAR is used by regulators to determine capital adequacy for banks and to run stress tests.
- Tier 1 and tier 2 capital are both used to measure CAR.

# Tier-1 Capital

Tier-1 capital, or core capital, consists of equity capital, ordinary share capital, intangible assets and audited revenue reserves.

#### Tier-2 Capital

Tier-2 capital comprises unaudited retained earnings, unaudited reserves, and general loss reserves.

#### Risk-weighted asset (RWA)

Risk-weighted asset (also referred to as RWA) is a bank's assets weighted according to risk.

# **QUESTION NO. 20A**

Bank 'R' was established in 2005 and doing banking in India. The bank is facing DO OR DIE situation. There are problems of Gross NPA (Non-Performing Assets) at 40% & CAR/CRAR (Capital Adequacy Ratio/ Capital Risk Weight Asset Ratio) at 4%. The net worth of the bank is not good. Shares are not traded regularly. Last week, it was traded @₹ 8 per share.

RBI Audit suggested that bank has either to liquidate or to merge with other bank.

Bank 'P' is professionally managed bank with low gross NPA of 5%. It has Net NPA as 0% and CAR at 16%. Its share is quoted in the market @ ₹128 per share. The board of directors of bank 'P' has submitted a proposal to RBI for takeover of bank 'R' on the basis of share exchange ratio.



The Balance Sheet details of both the banks are as follows:

	Bank 'R' Amt. in ₹ lakhs	Bank 'P' Amt. in ₹ lakhs
Paid up share capital(₹10)	140	500
Reserves & Surplus	70	5,500
Deposits	4,000	40,000
Other liabilities	890	2,500
Total Liabilities	5,100	48,500
Cash in hand & with RBI	400	2,500
Balance with other banks		2,000
Investments	1,100	15,000
Advances	3,500	27,000
Other Assets	100	2,000
Total Assets	5,100	48,500

It was decided to issue shares at Book Value of Bank 'P' to the shareholders of Bank 'R'.

All assets and liabilities are to be taken over at Book Value.

For the swap ratio, weights assigned to different parameters are as follows:

Gross NPA	30%
CAR	20%
Market price	40%
Book value	10%

- a) What is the swap ratio based on above weights?
- b) How many shares are to be issued?
- c) Prepare Balance Sheet after merger.
- d) Calculate CAR & Gross NPA % of Bank 'P' after merger.

# Solution:

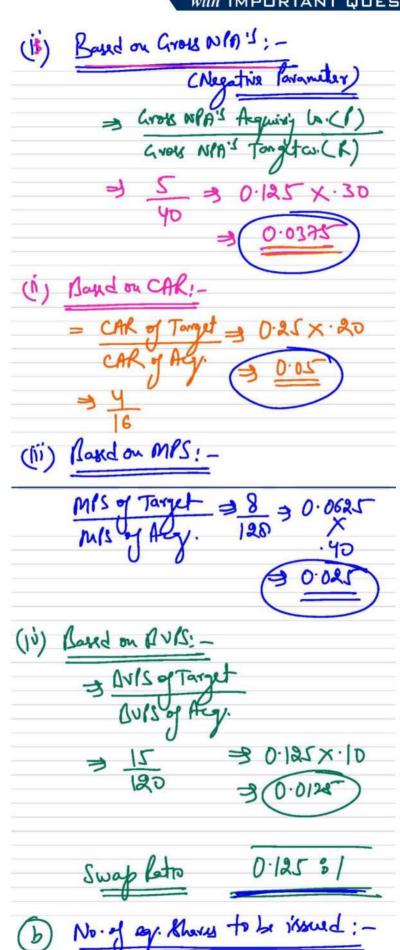
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# LOS 23: LEVERAGED BUYOUT (LBO) / MANAGEMENT BUYOUT

#### **QUESTION NO. 21**

Personal Computer Division of Distress Ltd., a computer hardware manufacturing company has started facing financial difficulties for the last 2 to 3 years. The management of the division headed by Mr. Smith is interested in a buyout on 1 April 2013. However, to make this buy-out successful there is an urgent need to attract substantial funds from venture capitalists.

Ven Cap, a European venture capitalist firm has shown its interest to finance the proposed buy-out. Distress Ltd. is interested to sell the division for ₹ 180 crore and Mr. Smith is of opinion that an additional amount of ₹ 85 crore shall be required to make this division viable. The expected financing pattern shall be as follows:

Source	Mode	Amount (₹ Crore)
Management	Equity Shares of ₹ 10 each	60.00
VenCap VC	Equity Shares of ₹ 10 each	22.50
	9% Debentures with attached warrant of ₹ 100 each	22.50
	8% Loan	160.00
Total		265.00

The warrants can be exercised any time after 4 years from now for 10 equity shares @ ₹ 120 per share.

The loan is repayable in one go at the end of 8th year. The debentures are repayable in equal annual installment consisting of both principal and interest amount over a period of 6 years.

Mr. Smith is of view that the proposed dividend shall not be kept more than 12.5% of distributable profit for the first 4 years. The forecasted EBIT after the proposed buyout is as follows:

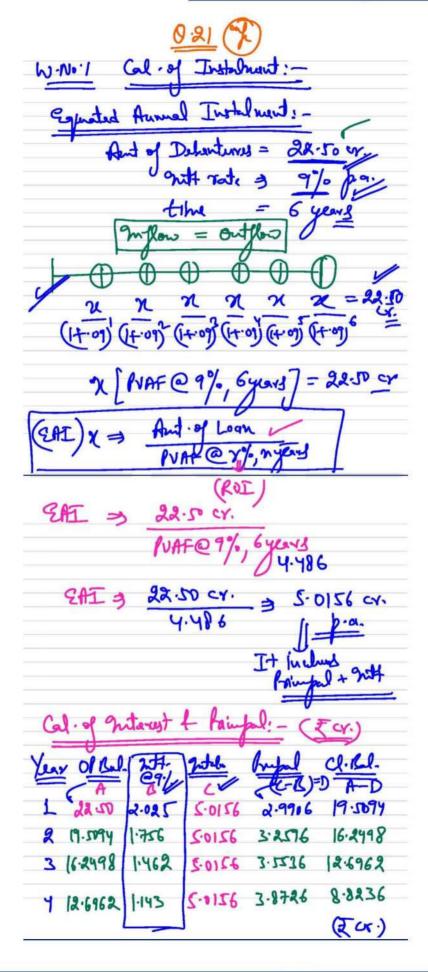
Year	2013-14	2014-15	2015-16	2016-17	
EBIT (₹ crore)	48	57	68	82	

Applicable tax rate is 35% and it is expected that it shall remain unchanged at least for 5-6 years. In order to attract VenCap, Mr. Smith stated that book value of equity shall increase by 20% during above 4 years. Although, VenCap has shown their interest in investment but are doubtful about the projections of growth in the value as per projections of Mr. Smith. Further VenCap also demanded that warrants should be convertible in 18 shares instead of 10 as proposed by Mr. Smith.

You are required to determine whether or not the book value of equity is expected to grow by 20% per year. Further if you have been appointed by Mr. Smith as advisor then whether you would suggest to accept the demand of VenCap of 18 shares instead of 10 or not.







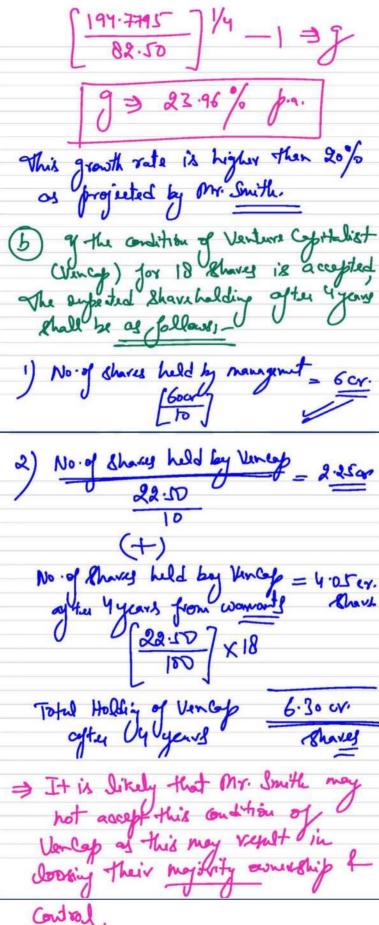






= Statement showing the Value of Equity:-
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